USERS' MANUAL
HAZARDOUS MATERIALS CONTROL MODULE

Richard H. Fiddleman
Kathlynn D. Miller

The MITRE Corporation
January 16, 1987

ADA198170

50272-101

REPORT DOCUMENTATION PAGE	1. REPORT NO. DOD/SW/MT-88/017i	2.	3. Recipient's Accession No.

4. Title and Subtitle

Navy Occupational Health Information Management System (NOHIMS) Hazardous Materials Control Module (HMC) User's Manual

5. Report Date 16 January 1987

6.

7. Author(s)

Mitre Corporation revised by NARDAC Washington DC

8. Performing Organization Rept. No.

9. Performing Organization Name and Address

Navy Regional Data Automation Center, Washington (Code 4443)
Building 143
Washington Navy Yard
Washington, DC 20374-0001

10. Project/Task/Work Unit No.

11. Contract(C) or Grant(G) No.

(C)

(G)

12. Sponsoring Organization Name and Address

Navy Environmental Health Center
Naval Station
Norfolk, VA 23511-6695
(Attn: Code 40/CDR James W. Allen, MC, USN)

13. Type of Report & Period Covered

14.

15. Supplementary Notes

For magnetic tape, see: ADA198157

16. Abstract (Limit: 200 words)

The Hazardous Materials Control Module (HMC) is one module of four for the Industrial Health component. The HMC module was designed to inform employees of health and safety hazards in the workplace and to track the movement of hazardous materials through the facility. The module performs these functions by maintaining health and safety data on hazardous materials used in the facility, and by tracking who requests information about any hazardous materials. The HMC module gets its information from two sources, the first one is the Hazardous Materials Information System (HMIS), this is a national system that is used by the Department of Defense. It is loaded on to the system via tapes that contain all safety, health and transportation information about a particular product. The second is Material Safety Data Sheets (MSDS) that are procured by a particular site. This information is manually entered into their own personal system, which they give a site specific sequential number.

17. Document Analysis a. Descriptors

Occupational Health, Safety, Stressors

b. Identifiers/Open-Ended Terms

c. COSATI Field/Group

18. Availability Statement

RELEASE UNLIMITED

19. Security Class (This Report) UNCLASSIFIED

20. Security Class (This Page) UNCLASSIFIED

21. No. of Pages 63

22. Price

TABLE OF CONTENTS

TABLE OF CONTENTS (Concluded)

LIST OF FIGURES

USERS' MANUAL

HAZARDOUS MATERIALS CONTROL MODULE

1.0 BACKGROUND

1.1 Purpose of the Manual

This manual describes the capabilities of the Hazardous Materials Control (HMC) module of the Naval Medical Command's (NAVMED) Navy Occupational Health Information Management System (NOHIMS). After presenting some background information on the total NOHIMS system, the manual describes the module's significant data input and output processes. Examples of output reports appear in the appendices. The information in this document is intended to help the reader understand how this module can help improve the handling and tracking of hazardous materials.

1.2 References

The following publications provide background information on the HMC module:

- DoD Hazardous Materials Information System Procedures, DoD 6050.5M, July 1981
- Federal Supply Classification Part 1: Groups and Classes, SB 708-21, May 1982
- Navy Occupational Safety and Health (NAVOSH) Program Manual, OPNAV Instruction 5100.23B, August 31, 1983
- Material Management Application - Shelf Life/Hazardous Materials Analysis Package, August 1984
- Federal Standard - Material Safety Data Sheets, Preparation and Submission of (Proposed), Federal Standards 313B, April 14, 1983
- NAVSUP Instruction 5100.27: Navy Hazardous Material Control Program
- Consolidated Hazardous Item List (CHIL) - NAVSUP Publication 4500, July 1980

1.3 Terms and Abbreviations

The following terms and abbreviations are used in this manual:

- CAS (Chemical Abstract Service) Number: A unique identification number given to chemical substances by the Chemical Abstract Service
- IHer: The Industrial Hygienist at the medical clinic
- FSC (Federal Supply Class): The first 4 digits of the 13-digit national stock number
- FSCM (Federal Supply Code for Manufacturers): A 5-digit code used to identify manufacturers and distributors of hazardous materials
- HMIS (Hazardous Material Information System): A computer-based information system developed to accumulate, maintain, and disseminate (on magnetic tape and microfiche) important characteristics of hazardous materials which exist throughout the DoD
- LSN (Local Stock Number): A number assigned by a single facility to identify a hazardous material used in that facility
- Material Name: The part number, trade name or synonym commonly used to refer to a hazardous material
- MSDS (Material Safety Data Sheet): A summary of the information known about a hazardous substance; must be supplied by a vendor when a facility purchases such material
- NFPA (National Fire Prevention Association) Code: A code assigned by the National Fire Prevention Association that reflects the health, fire, and reactivity hazards of a substance
- NIIN (National Item Identification Number): The last 9 digits of the 13-digit national stock number
- NIOSH (National Institute of Occupational Safety and Health) Number: A unique number assigned to materials by the National Institute of Occupational Safety and Health
- NSN (National Stock Number): A 13-digit number used throughout the Navy to refer to any material purchased through the Federal Supply System
- U.I.C. (Unit Identification Code): A unique number assigned to reach Navy facility

- o Vendor: The manufacturer or distributor of material purchased for use in a Navy facility

- o Work Control Document: A document used in shipyards that describes how to perform a job that involves hazardous materials

- o Worker Data Sheet (WDS): A summary of health and safety information on hazardous materials that is intended for use by the worker

1.4 Hazardous Materials Control Module Overview

The HMC module maintains health, safety, and location data on hazardous materials used in a Navy facility and keeps track of who requests this information. Figure 1-1 shows the module's major inputs, processes, files, and outputs. Health and safety data are entered into the system from several sources. Periodically, health and safety information is entered from tapes created by the HMIS. More recent health and safety data are entered manually directly from MSDS's.

Other health-related data and references to work control documents can also be keyed manually into the system. In addition, each local facility can add clarifying comments to most data fields. The module also has the capability of tracking requests for hazardous materials information. This feature is used to see which shops need information on which materials.

Outputs from the module consist of reports summarizing the contents of the data base and worker data sheets that are intended for distribution to workers.

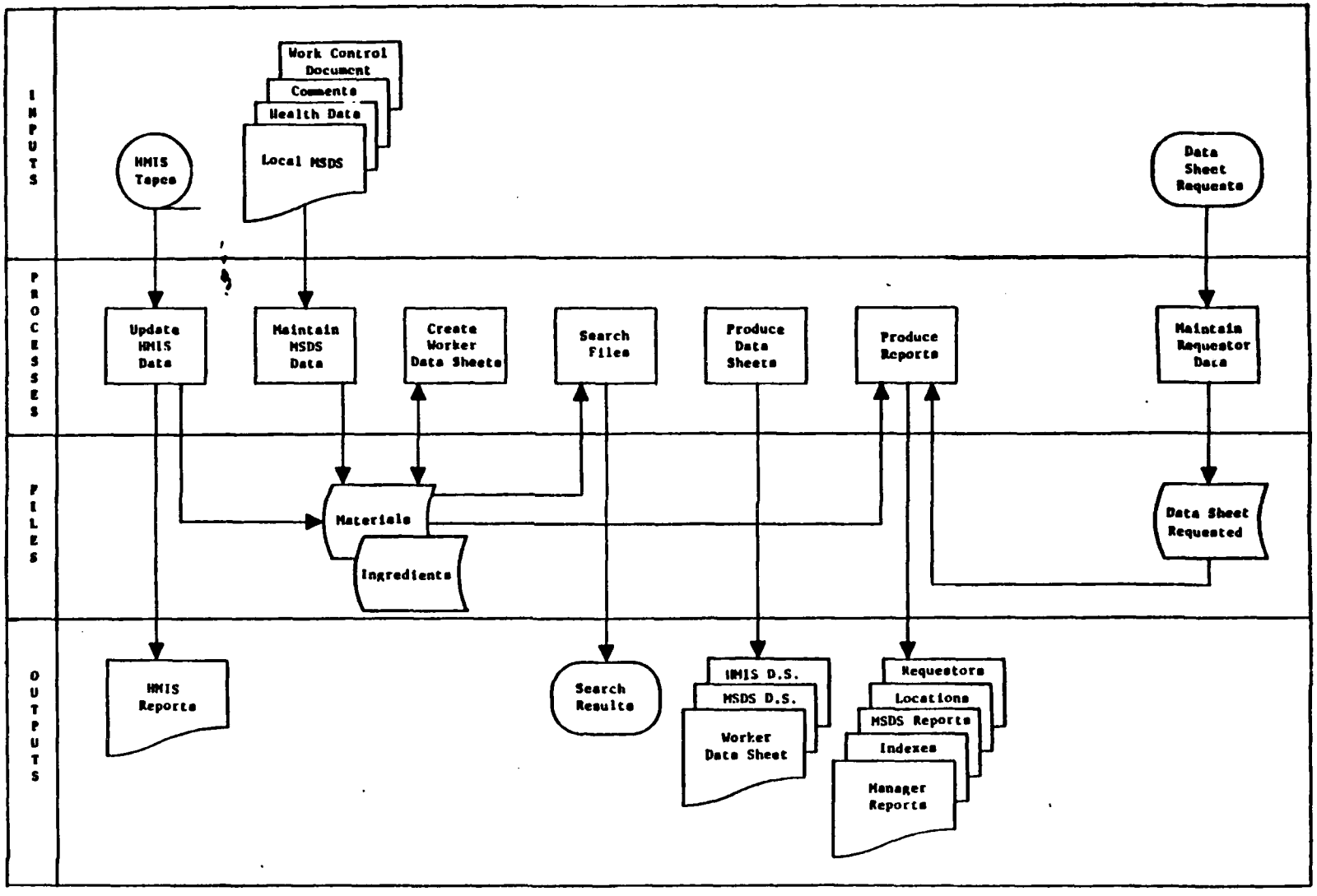

FIGURE 1-1
OVERVIEW OF HAZARDOUS MATERIALS CONTROL MODULE

2.0 NOHIMS OVERVIEW

2.1 NOHIMS Modules

NOHIMS is divided into two separate components--the Industrial component and the Medical component. The Industrial component consists of four major application modules--Administration, Environmental Exposure, Medical Exam Scheduling, Hazardous Materials Control--and various special purpose support modules. The Administration module maintains files that are used by all or most of the other application modules; these files contain data on employees, locations, operations, occupations, stressors, and agencies. The supporting modules, to be developed at a later date, will provide interfaces to statistical and graphics packages and will also permit transmission of data between NOHIMS computers. The Medical component of NOHIMS is a modification of the public-domain software package COSTAR (COmputer-STored Ambulatory Recordkeeping system).

2.2 System Environment

NOHIMS will be implemented in medical clinics at Naval Air Rework Facilities (NARF's) and Navy shipyards; computer hardware dedicated for use by NOHIMS will be procured and installed there. The system will be hosted on minicomputers using video display terminals (VDTs), workstations, and printers located throughout the host facility. The size and number of minicomputers will differ from location to location, depending on workload and geographic distribution considerations. Data will be entered on-line and can be retrieved either on-line or via reports printed at night (or any later time).

NOHIMS is programmed in the MUMPS programming language and the Veterans Administration (VA) FileMan and Kernel software packages. Initially developed at the Laboratory of Computer Science at Massachusetts General Hospital, the Massachusetts General Hospital Utility Multi-Programming System (MUMPS) programming language is a combination operating system, file handler, and interpreter. The language was designed from its conception for use in an on-line, multi-user environment. MUMPS is a general-purpose language especially suited to storing and retrieving hierarchical data and processing strings, e.g., free text data, efficiently.

Using the MUMPS language, the VA developed the VA FileMan software package. A programmer or an end-user can use the features of the VA FileMan to specify the characteristics of files and/or fields within these files and to save these specifications in a data dictionary, to specify standard input and output processes and to store these processes in templates, and to execute ad hoc queries against a VA FileMan data base. The VA Kernel displays and manages the system's menus, controls user and device access to the system, manages the security features associated with menus, devices, and users, provides electronic mail functions, and enables users to schedule jobs

for later execution. Most NOHIMS files and input and output processes are implemented using VA FileMan. Processes that could not be efficiently or effectively accomplished using the features available in VA FileMan were developed using the MUMPS programming language.

2.3 System Data Base

NOHIMS contains over 100 files. There are two types of files:

- Application files--These files are primarily intended to support the functions of a specific module, although in certain cases they may be used by other modules. In addition, the contents of these files change frequently as new data is added to the files or old data is removed from these files.

- Reference files--These files are primarily intended to be used by a specific module, although in certain cases they may also be used by more than one module. These files differ from application files in that they contain controlled vocabularies of terms. The contents of these files are usually static or change slowly over time.

In many cases, the contents of reference files have been received from various sources within the Navy. It is possible, however, for the local site to build its own reference files. The application files used by the Administration module--Agency, Employee, Location, Operation, Occupation, and Stressor--frequently act as reference files in that they control what data can be entered into certain data fields. The contents of three of these files, Agency, Employee, and Location, can be changed by the local site.

There are no software limitations on the size of files, the number of fields in the files, or the number of files in the system.

3.0 MODULE INPUT PROCESSES

3.1 Summary of Input Processes

The Hazardous Materials Control module contains many menu options that enable the user to enter data into the module's files or to edit or delete existing data. These options can be grouped into processes where each process performs enter, edit, or deletion activities on a specific type of data. The module's input processes are as follows:

- o HMIS data maintenance
- o Local MSDS data maintenance
- o Data sheet request tracking

Maintaining HMIS data involves the periodic updating of the NOHIMS files from HMIS system tapes. Local MSDS data is maintained by manually keying the data contained in MSDS's received from vendors. Data sheet request information is entered manually whenever a request for a data sheet is received by the IH.

3.2 HMIS Data Maintenance

Seven HMIS tapes are sent by the Navy Environmental Health Center (NEHC) to NARDAC Washington in November, February, May, and August. NARDAC Washington will copy these tapes and send them to each NOHIMS site. There are four tapes containing safety data and two tapes containing transportation data (one tape containing reference data is not used in NOHIMS). These tapes contain records on all 35,000 materials used by DoD. All additions, changes, and deletions on these tapes are transferred to corresponding entries in NOHIMS during each quarterly update.

Between quarterly updates, each facility may add additional HMIS records to their files by entering the three identifying fields for each new record (stock number, federal supply code for manufacturer, and part number indicator) and then processing the tapes. When the new records have been transferred from the tapes, processing stops. Any remaining tapes do not have to be read.

Each facility may annotate any HMIS record by adding comments to fields in the NOHIMS file.

3.3 Local MSDS Data Maintenance

Local MSDS's are sent to the IH from the facility's supply department whenever an MSDS is received from a vendor. The data from the MSDS is then keyed into the system. These locally entered MSDS's stay in the system as discrete entries until they are manually deleted. HMIS updates do not affect these local MSDS entries. Local MSDS's contain the same categories of information as the HMIS updates. The ability to enter local MSDS's separately from HMIS updates enables each facility to have on file current hazardous materials information that may not appear on the HMIS tapes until some later date.

The following categories of information are entered for each MSDS record:

- o Identification information
- o Ingredients
- o Physical data
- o Fire and explosion data
- o Health hazard
- o Reactivity data
- o Spill or leak procedures
- o Special protection information
- o Special precautions
- o Transportation data
- o References to work control documents (optional)
- o Special health-related information such as acute and chronic toxicity, route of exposure, neutralizing agent, carcinogenicity, NFPA code, exposure limit, and early warning properties (optional)
- o Comments on any of the standard MSDS items (optional)

3.4 Data Sheet Request Tracking

Whenever a data sheet is requested in the HMC module, the system asks the user to identify the person and shop that will be receiving the data sheet. This information is maintained by the module as a means of tracking where hazardous materials are located in the facility.

4.0 MODULE OUTPUT PROCESSES

4.1 Summary of Output Processes

The Hazardous Materials Control module contains many menu options that enable the user to obtain needed information from the module. These options can be grouped into processes, where each provides a specific type of information. There are four types of output processes in the HMC module:

- o Report production
- o Data sheets production
- o Search for data on materials
- o HMIS update results

Reports contain health, safety, or location information on a material or lists of shops requesting data sheets. The data sheets may either be those intended for distribution to workers or a complete listing of all the data about a given material. Search results are screen displays of all the data on a given material. HMIS updates produce four manager's reports that document the status and results of the HMIS update run.

4.2 Report Production

There are three types of reports in the HMC module (Figure 4-1)--indexes, MSDS logs, and data sheet requests. Index information includes a material's vendor, trade name, MSDS number, MSDS date, stock number, and approval code. [Indexes are used as quick references to materials on file in NOHIMS. Examples of indexes are given in Appendix A.] MSDS logs contain more extensive information about the materials on file, including its Federal Supply Code for Manufacturers (FSCM), form of material, National Fire Prevention Association, (NFPA) Code, ingredients, work control document number and CAS/NIOSH number (not all of these items appear on every report; each report has its own specific focus). Examples of MSDS logs are given in Appendix B. They contain data on the shop and building to which a material was issued, requesting shop, contract number, hazard code, stock number, material name and vendor.

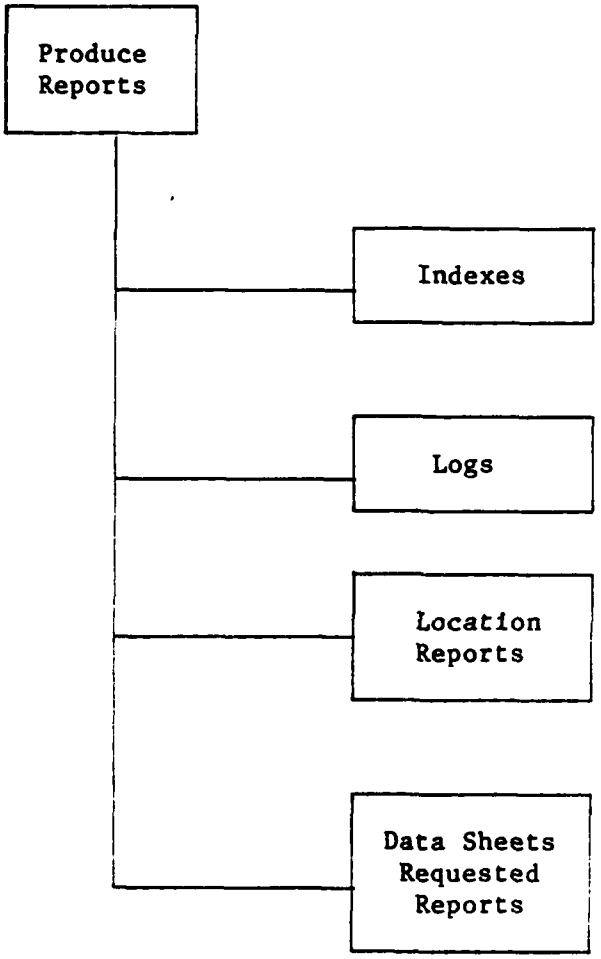

FIGURE 4-1

OUTPUTS FROM REPORT PRODUCTION PROCESS

The Data Sheets Requested Report is used for determining where materials are located in the facility. An example of a Data Sheets Requested Report is given in Appendix C.

Under each report type below is a list of the data fields that are used in sorting reports. Each data field listed corresponds to a different report.

- o Indexes
  - -By vendor
  - -By trade name
  - -By MSDS date
  - -By worker data sheet number
- o MSDS logs
  - -By MSDS number
  - -By stock number
  - -By MSDS date
  - -By specification
  - -By ingredient
  - -By work control document name
  - -By health code
  - -By fire code
  - -By reactivity code
  - -By specific NFPA code
  - -By material form
- o Location Reports
  - -By requesting shop
- o Data sheets requested report--By requestor name

4.3 Data Sheet Production

There are three types of data sheets -- worker data sheets (WDS's), HMIS data sheets, and MSDS's. They all contain the following information:

- MSDS-related data including:
  - -Identification information
  - -Ingredients
  - -Physical data
  - -Fire and explosion data
  - -Health hazard data
  - -Reactivity data
  - -Spill or leak procedures
  - -Special protection information
  - -Special precautions
  - -Transportation data
- References to work control documents
- Special health-related information, including:
  - -Toxicity
  - -Route of exposure
  - -Neutralizing agent
  - -NFPA code
  - -Early warning properties

MSDS and HMIS data sheets also contain any local comments keyed into the system.

Worker data sheets (WDSs) are created at each local facility from HMIS records and local MSDS's. They contain health and safety related information in terms that workers can readily understand and apply to their jobs. The MSDS data sheet is generated from a local MSDS entry in the Material file, and the HMIS data sheet is generated from an HMIS entry in the same file.

These two data sheets are meant to be used internally by the IH office when they need detailed information on a hazardous material.

Examples of MSDS, HMIS data sheets, and WDS's are given in Appendix D.

4.4 Search for Data on Materials

A hazardous material can be identified for display purposes by:

- o WDS number
- o Material name
- o Ingredient
- o Chemical name
- o Vendor (manufacturer or distributor)
- o Stock number
- o CAS/NIOSH number
- o Specification
- o NIIN number
- o Work control document number

The results of all these searches is a screen display of information on file for that material. An example of a search display is given in Appendix E.

4.5 HMIS Update Results

Whenever HMIS records are loaded into the NOHIMS, four reports are produced that document the status of the update process (Figure 4-2). These reports are:

- o HMIS Update Report
- o Materials Load Error Report
- o MSDS Not Matched By HMIS Record
- o Ingredients Not In Stressor File

The first report, HMIS Update Report, lists the records that were added, changed, or deleted in the NOHIMS file. The report shows the three key identifying fields of an HMIS record (stock number, federal supply code for manufacturers, and part number indicator), the material's name, and the vendor. The second report, Materials Load Error Report, contains a list of records that had one or more fields that did not pass input screening tests for that field. The three key fields are given, along with the field number and value of the fields in error.

The third report, MSDS Not Matched By HMIS Record, contains a list of materials that the user assumed would be updated by HMIS that, in fact, were not updated by HMIS. The report shows the stock number of the material and details of any local MSDS associated with that stock number. The Ingredients Not In Stressor File produces a list of materials that contain ingredients that are not included in the defined set of NOHIMS stressors.

Examples of these reports are given in Appendix F.

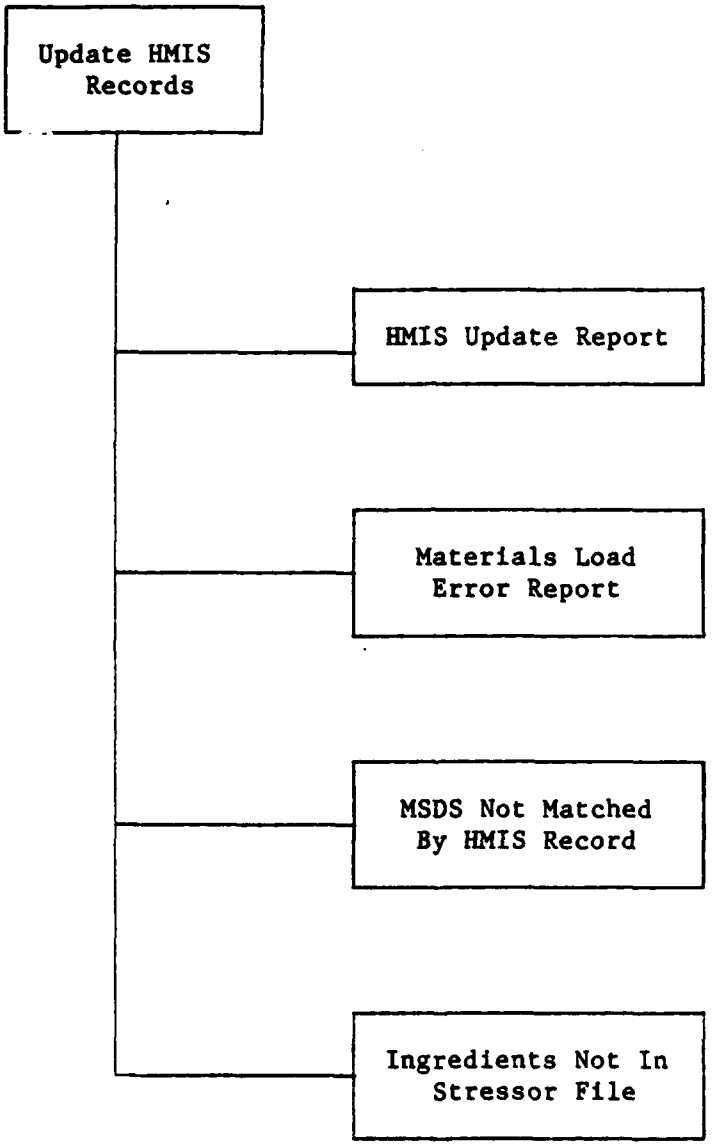

FIGURE 4-2
OUTPUTS FROM HMIS UPDATE PROCESS

APPENDIX A

EXAMPLES OF INDEXES

APPENDIX A

In the following indexes, the term "vendor" refers to the manufacturer if there is one. If there is no manufacturer, "vendor" refers to the distributor. The term "trade name" may, in some cases, be a part number. HMIS documents define the trade name field to include part number or other synonym. In the case of local MSDS's, the first name keyed into the Material Name multiple is defined to be the trade name. Therefore, if some other name was entered before the trade name, that first name would appear on the indexes as the trade name. For HMIS entries, the column labeled "MSDS Number" contains the number of the local MSDS that covers the same material as the HMIS entry. Many HMIS entries do not have a corresponding local MSDS. The column labeled "MSDS Date" contains the date associated with the local MSDS if there is a local MSDS. If there is no local MSDS, the MSDS date in the HMIS entry is defined as the date the HMIS entry was added to the HMIS system. The column labeled "WDS Number" contains the number of the worker data sheet that has been created from the HMIS entry or local MSDS. The column labeled "Stock Number" refers to the national stock number for all HMIS entries. For local MSDS's, the stock number is the first local stock number entered with the local MSDS. If no local stock number was entered, the stock number is defined as the locally generated MSDS number. An asterisk following the stock number means that the stock number is a national stock number and there are, in addition, one or more local stock numbers associated with the entry.

VENDOR	TRADE NAME	MSDS NUMBER	MSDS DATE	WDS NUMBER	STOCK NUMBER
AJAX INC.	GREASE	M/00181-20	DEC 12,1985		A12345
AMATEX CORP.	F150-3/4,ASBESTOS.	-	DEC 3,1981		597000D000004
AMCHEM PROD	DEOXIDINE 624	-	FEB 2,1981		685000D000002
AMCHEM PRODUCTS, INC.	ALODINE (KIT 120)	M/00181-18	OCT 10,1985		M/00181-18
CHEMCO	SODIUM SULFATE	-	SEP 29,1985		4444444444444
DEVOE MARINE COATINGS CO.	ABC	M/00181-3	MAY 21,1985		M/00181-3
DEVOE MARINE COATINGS CO.	DEVRAN	M/00181-16	OCT 21,1985		53A10
DOW	COMPOUND W	M/00181-2	SEP 1,1985		M/00181-2
DOW	PAINT, YELLOW	-	OCT 22,1985		2222222222222
DOW CHEM	DEGREASING SOLVENT	M/00181-1	JAN 1,1985		A100
DOW CHEMICAL	SOLVENT	M/00181-37	NOV 21,1985		12345LL12345
DUPONT	XYOLENE	M/00181-30	OCT 31,1985		M/00181-30
E.I.DUPONT DE NEMOURS	DUCO LACQUER, FLAT BLACK	M/00181-19	MAR 7,1985		M/00181-19
HOFFER'S INC.-PAINT DIV.	SEMI-GLOSS INTERIOR LATEX WHIT	8010LS0010001	JUN 14,1982		8010LS0010001
MIDLAND DIV THE DEXTER CORP	LAMINAR X-500	M/00181-25	AUG 16,1985		M/00181-25

MSDS INDEX BY TRADE NAME

TRADE NAME	VENDOR	MSDS NUMBER	MSDS DATE	NDS NUMBER	STOCK NUMBER
ABC	DEVOE MARINE COATINGS CO.	M/00181-3	MAY 21,1985		M/00181-3
ALODINE (KIT 120)	AMCHEM PRODUCTS, INC.	M/00181-18	OCT 10,1985		M/00181-18
BOSTIK 1007P	USM CORPORATION,BOSTIK DI	-	AUG 31,1981		8040N05985164
COMPOUND W	DOW	M/00181-2	SEP 1,1985		M/00181-2
DEGREASING SOLVENT	DOW CHEM	M/00181-1	JAN 1,1985		A100
DEOXIDINE 624	AMCHEM PROD	-	FEB 2,1981		685000D000002
DEVRAN	DEVOE MARINE COATINGS CO.	M/00181-16	OCT 21,1985		53A10
DUCO LACQUER, FLAT BLACK	E.I.DUPONT DE NEMOURS	M/00181-19	MAR 7,1985		M/00181-19
F150-3/4,ASBESTOS.	AMATEX CORP.	-	DEC 3,1981		597000D000004
GREASE	AJAX INC.	M/00181-20	DEC 12,1985		A12345
LAMINAR X-500	MIDLAND DIV THE DEXTER CO	M/00181-25	AUG 16,1985		M/00181-25
PAINT, YELLOW	DOW	-	OCT 22,1985		2222222222222
PERMAFUSE	PERMAFUSE CORP.	M/00181-10	JAN 10,1984		A10
PROPYLENE OXIDE	UNION CARBIDE CORP, LINDE	-	APR 2,1981		681000D000001
PT 515 WASP-FREEZE	WHITMIRE RESEARCH LAB.	M/00181-14	SEP 28,1984		M/00181-14

EMSDS INDEX BY MSDS DATE JUL 8,1986 10:07 PAGE 1

MSDS DATE	TRADE NAME	VENDOR	MSDS NUMBER	WDS NUMBER	STOCK NUMBER
FEB 2,1981	DEOXIDINE 624	AMCHEM PROD	-		685000D000002
FEB 26,1981	VIRGINIA 810 DEGREASING SOLVEN	VIRGINIA CHEM, INC	-		685000D000003
APR 2,1981	PROPYLENE OXIDE	UNION CARBIDE CORP, LINDE DIV	-		681000D000001
AUG 31,1981	BOSTIK 1007F	USM CORPORATION,BOSTIK DIVISIO	-		8040N05985164
DEC 3,1981	F150-3/4,ASBESTOS.	AMATEX CORP.	-		597000D000004
JUN 14,1982	SEMI-GLOSS INTERIOR LATEX WHIT	HOFFER'S INC.-PAINT DIV.	B010LS0010001		B010LS0010001
JAN 10,1984	PERMAFUSE	PERMAFUSE CORP.	M/00181-10		A10
SEP 28,1984	PT 515 WASP-FREEZE	WHITMIRE RESEARCH LAB.	M/00181-14		M/00181-14
JAN 1,1985	DEGREASING SOLVENT	DOW CHEM	M/00181-1		A100
MAR 7,1985	DUCO LACQUER, FLAT BLACK	E.I.DUPONT DE NEMOURS	M/00181-19		M/00181-19
MAY 8,1985	TURCO 5351	TURCO PRODUCTS	M/00181-13	W/00181-2	M/00181-13
MAY 21,1985	ARC	DEVOE MARINE COATINGS CO.	M/00181-3		M/00181-3
AUG 16,1985	LAMINAR X-500	MIDLAND DIV THE DEXTER CORP	M/00181-25		M/00181-25
SEP 1,1985	COMPOUND W	DOW	M/00181-2		M/00181-2
SEP 16,1985	TYPE 361A SOLDER	TENNECO	1111122222333		11111222223334

TRADE NAME	WDS NUMBER	WDS DATE	VENDOR	SOURCE MSDS	APPROVAL CODE
SILASTIC(R) 732 SEALANT	W/00191-21	JAN 7,1986	DOW CORNING CORP.	M/00181-17	NOT APPROVED
SILASTIC(R) 732 SEALANT	W/00181-22		DOW CORNING CORP.	M/00181-19	NOT APPROVED

APPENDIX B

EXAMPLES OF MSDS LOGS

APPENDIX B

In the following reports, the term "vendor" refers to the manufacturer if there is one. If there is no manufacturer, "vendor" refers to the distributor. The term "trade name" may, in some cases, be a part number. HMIS documents define the trade name field to include part number or other synonym. In the case of local MSDS's, the first name keyed into the Material Name multiple is defined to be the trade name. Therefore, if some other name was entered before the trade name, that first name would appear on the indexes as the trade name. For HMIS entries, the column labeled "MSDS Number" contains the number of the local MSDS that covers the same material as the HMIS entry. Many HMIS entries do not have a corresponding local MSDS. The column labeled "MSDS Date" contains the date associated with the local MSDS if there is a local MSDS. If there is no local MSDS, the MSDS date in the HMIS entry is defined as the date the HMIS entry was added to the HMIS system. The column labeled "WDS Number" contains the number of the worker data sheet that has been created from the HMIS entry or local MSDS. The column labeled "Stock Number" refers to the national stock number for all HMIS entries. For local MSDS's, the stock number is the first local stock number entered with the local MSDS. If no local stock number was entered, the stock number is defined as the locally generated MSDS number. An asterisk following the stock number means that the stock number is a national stock number and there are, in addition, one or more local stock numbers associated with the entry. The column labeled "FSCM" refers to the Federal Supply Code for Manufacturer. The column labeled "P/N" or "PNI" is the part number indicator.

MSDS NUMBER	TRADE NAME	VENDOR	TELEPHONE	FORM	NFPA	STOCK NUMBER
-	PAINT, YELLOW	DOW		GAS	222ACID	2222222222222
-	SODIUM SULFATE	CHEMCO		UNK	311ACID	4444444444444
-	F150-3/4,ASBESTOS.	AM[illegible] CORP.	215-275-4602			5970000000004
-	PROPYLENE OXIDE	U[illegible]ARBIDE CORP, LINDE	212-551-4785			681000D000001
-	DEOXIDINE 624	ANCHE[illegible]PROD	215-628-1000			685000D000002
-	VIRGINIA #10 DEGREASING S	VIRGINIA CHEM, INC	804-484-5000			685000D000003
-	BOSTIK 1007P	USM CORPORATION,BOSTIK DI	617-777-0100			8040N05985164
1111122222333	TYPE 361A SOLDER	TENNECO		-	123ACID	11111222223338
8010LS0010001	SEMI-GLOSS INTERIOR LATEX	HOFFER'S INC.-PAINT DIV.	715-845-7221			8010LS0010001
M/00181-1	DEGREASING SOLVENT	DOW CHEM			333ACID	A100
M/00181-10	PERMAFUSE	PERMAFUSE CORP.	516 335-9876	LIQUID	222ACID	A10
M/00181-13	TURCO 5351	TURCO PRODUCTS	818 579-6270	GAS	111ACID	M/00181-13
M/00181-14	PT 515 WASP-FREEZE	WHITMIRE RESEARCH LAB.	314 225-5311	GAS	311COR	M/00181-14
M/00181-16	DEVRAN	DEVOE MARINE COATINGS CO.	502 897-9861		3210XY	53A10
M/00181-18	ALODINE (KIT 120)	AMCHEM PRODUCTS, INC.	215 393-4938		123COR	M/00181-18

STOCK NUMBER	TRADE NAME	VENDOR	MSDS NUMBER	MSDS DATE	FORM	NFPA
1111122222333#	TYPE 361A SOLDER	TENNECO	1111122222333	SEP 16,1985	-	123ACID
2222222222222	PAINT, YELLOW	DOW	-	OCT 22,1985	GAS	222ACID
4444444444444	SODIUM SULFATE	CHEMCO	-	SEP 29,1985	UNK	311ACID
12345LL12345	SOLVENT	DOW CHEMICAL	M/00181-37	NOV 21,1985		212OXY
53A10	DEVRAN	DEVOE MARINE COATINGS CO.	M/00181-16	OCT 21,1985		321OXY
597000D000004	F150-3/4,ASBESTOS.	AMATEX CORP.	-	DEC 3,1981		
681000D000001	PROPYLENE OXIDE	UNION CARBIDE CORP, LINDE	-	APR 2,1981		
685000D000002	DEOXIDINE 624	AMCHEM PROD	-	FEB 2,1981		
685000D000003	VIRGINIA 810 DEGREASING S	VIRGINIA CHEM, INC	-	FEB 26,1981		
8010LS0010001	SEMI-GLOSS INTERIOR LATEX	HOFFER'S INC.-PAINT DIV.	8010LS0010001	JUN 14,1982		
8040N05985164	BOSTIK 1007P	USM CORPORATION,BOSTIK DI	-	AUG 31,1981		
A10	PERMAFUSE	PERMAFUSE CORP.	M/00181-10	JAN 10,1984	LIQUID	222ACID
A100	DEGREASING SOLVENT	DOW CHEM	M/00181-1	JAN 1,1985		333ACID
A12345	GREASE	AJAX INC.	M/00181-20	DEC 12,1985		
M/00181-13	TURCO 5351	TURCO PRODUCTS	M/00181-13	MAY 8,1985	GAS	111ACID
M/00181-14	PT 515 WASP-FREEZE	WHITMIRE RESEARCH LAB.	M/00181-14	SEP 28,1984	GAS	311COR

HMSDS LOG BY MSDS DATE — JUL 8,1986 10:09 — PAGE 1

MSDS DATE	MSDS NUMBER	TRADE NAME	VENDOR	FORM	NFPA	STOCK NUMBER	FSCM	P/N
FEB 2,1981	-	DEOXIDINE 624	AMCHEM PROD			685000D000002	84063	A
FEB 26,1981	-	VIRGINIA #10 DEGREASING S	VIRGINIA CHEM, INC			685000D000003	87698	A
APR 2,1981	-	PROPYLENE OXIDE	UNION CARBIDE CORP, LINDE			681000D000001	8N493	A
AUG 31,1981	-	BOSTIK 1007P	USM CORPORATION,BOSTIK DI			8040N05985164	61957	A
DEC 3,1981	-	F150-3/4,ASBESTOS.	AMATEX CORP.			597000D000004	90896	A
JUN 14,1982	B010LS0010001	SEMI-GLOSS INTERIOR LATEX	HOFFER'S INC.-PAINT DIV.			8010LS0010001	81348	A
JAN 10,1984	M/00181-10	PERMAFUSE	PERMAFUSE CORP.	LIQUID	222ACID	A10	333	
SEP 28,1984	M/00181-14	PT 515 WASP-FREEZE	WHITMIRE RESEARCH LAB.	GAS	311COR	M/00181-14		
JAN 1,1985	M/00181-1	DEGREASING SOLVENT	DOW CHEM		333ACID	A100		
MAR 7,1985	M/00181-19	DUCO LACQUER, FLAT BLACK	E.I.DUPONT DE NEMOURS		123ACID-COR	M/00181-19		
MAY 8,1985	M/00181-13	TURCO 5351	TURCO PRODUCTS	GAS	111ACID	M/00181-13		
MAY 21,1985	M/00181-3	ARC	DEVOE MARINE COATINGS CO.	LIQUID	312ACID	M/00181-3		
AUG 16,1985	M/00181-25	LAMINAR X-500	MIDLAND DIV THE DEXTER CO		311COR	M/00181-25		
SEP 1,1985	M/00181-2	COMPOUND W	DOW	SOLID	3110XY	M/00181-2		
SEP 16,1985	1111122222333	TYPE 361A SOLDER	TENNECO	-	123ACID	11111222223338	22222	
SEP 29,1985	-	SODIUM SULFATE	CHEMCO	UNK	311ACID	4444444444444	99999	

MSDS LOG BY SPECIFICATION

SPECIFICATION	MSDS NUMBER	STOCK NUMBER	FSCM	PNI	TRADE NAME	VENDOR	MSDS DATE
MIL-00001	M/00181-18	M/00181-18			ALODINE (KIT 120)	AMCHEM PRODUCTS, INC.	OCT 10,1985
MIL-11111	M/00181-14	M/00181-14			PT 515 WASP-FREEZE	WHITMIRE RESEARCH LAB.	SEP 28,1984
MIL-12345	M/00181-13	M/00181-13			TURCO 5351	TURCO PRODUCTS	MAY 8,1985
MIL-33333	M/00181-16	53A10	66666		DEVRAN	DEVOE MARINE COATINGS CO.	OCT 21,1985

NFPA CODE	STOCK NUMBER	MSDS NUMBER	TRADE NAME	VENDOR	FORM
	HEALTH CODE: 1				
123ACID	11111222223338	1111122222333	TYPE 361A SOLDER	TENNECO	-
111ACID	1234567890123	M/00181-30			
111ACID	M/00181-13	M/00181-13	TURCO 5351	TURCO PRODUCTS	GAS
123COR	M/00181-18	M/00181-18	ALODINE (KIT 120)	AMCHEM PRODUCTS, INC.	
123ACID-COR	M/00181-19	M/00181-19	DUCO LACQUER, FLAT BLACK	E.I.DUPONT DE NEMOURS	
	HEALTH CODE: 2				
222ACID	2222222222222	-	PAINT, YELLOW	DOW	GAS
212OXY	12345LL12345	M/00181-37	SOLVENT	DOW CHEMICAL	
222ACID	A10	M/00181-10	PERMAFUSE	PERMAFUSE CORP.	LIQUID
	HEALTH CODE: 3				
311ACID	4444444444444	-	SODIUM SULFATE	CHEMCO	UNK
321OXY	53A10	M/00181-16	DEVRAN	DEVOE MARINE COATINGS CO.	
333ACID	A100	M/00181-1	DEGREASING SOLVENT	DOW CHEM	
311COR	M/00181-14	M/00181-14	PT 515 WASP-FREEZE	WHITMIRE RESEARCH LAB.	GAS
311OXY	M/00181-2	M/00181-2	COMPOUND W	DOW	SOLID

MSDS LOG BY NFPA CODE JUL 8,1986 10:11 PAGE 1

NFPA CODE	STOCK NUMBER	MSDS NUMBER	TRADE NAME	VENDOR	FORM
	FIRE CODE: 1				
111ACID	12345678901 23	M/00181-30			
311ACID	4444444444444	-	SODIUM SULFATE	CHEMCO	UNK
2120XY	12345LL12345	M/00181-37	SOLVENT	DOW CHEMICAL	
111ACID	M/00181-13	M/00181-13	TURCO 5351	TURCO PRODUCTS	GAS
311COR	M/00181-14	M/00181-14	PT 515 WASP-FREEZE	WHITMIRE RESEARCH LAB.	GAS
3110XY	M/00181-2	M/00181-2	COMPOUND W	DOW	SOLID
311COR	M/00181-25	M/00181-25	LAMINAR X-500	MIDLAND DIV THE DEXTER CO	
312ACID	M/00181-3	M/00181-3	ABC	DEVOE MARINE COATINGS CO.	LIQUID
312COR	M/00181-30	M/00181-30	XYOLENE	DUPONT	
	FIRE CODE: 2				
123ACID	11111222223338	1111122222333	TYPE 361A SOLDER	TENNECO	-
222ACID	2222222222222	-	PAINT, YELLOW	DOW	GAS
321DXY	53A10	M/00181-16	DEVRAN	DEVOE MARINE COATINGS CO.	
222ACID	A10	M/00181-10	PERMAFUSE	PERMAFUSE CORP.	LIQUID
123COR	M/00181-18	M/00181-18	ALODINE (KIT 120)	AMCHEM PRODUCTS, INC.	

HMSDS LOG BY NFPA CODE JUL 8,1986 10:11 PAGE 1

NFPA CODE	STOCK NUMBER	MSDS NUMBER	TRADE NAME	VENDOR	FORM
	REACTIVITY CODE: 1				
111ACID	1234567890123	M/00181-30			
311ACID	4444444444444	-	SODIUM SULFATE	CHEMCO	UNK
3210XY	53A10	M/00181-16	DEVRAN	DEVOE MARINE COATINGS CO.	
111ACID	M/00181-13	M/00181-13	TURCO 5351	TURCO PRODUCTS	GAS
311COR	M/00181-14	M/00181-14	PT 515 WASP-FREEZE	WHITMIRE RESEARCH LAB.	GAS
3110XY	M/00181-2	M/00181-2	COMPOUND W	DOW	SOLID
311COR	M/00181-25	M/00181-25	LAMINAR X-500	MIDLAND DIV THE DEXTER CO	
	REACTIVITY CODE: 2				
222ACID	2222222222222	-	PAINT, YELLOW	DOW	GAS
2120XY	12345LL12345	M/00181-37	SOLVENT	DOW CHEMICAL	
222ACID	A10	M/00181-10	PERMAFUSE	PERMAFUSE CORP.	LIQUID
312ACID	M/00181-3	M/00181-3	ABC	DEVOE MARINE COATINGS CO.	LIQUID
312COR	M/00181-30	M/00181-30	XYOLENE	DUPONT	
	REACTIVITY CODE: 3				
123ACID	11111222223333	1111122222333	TYPE 361A SOLDER	TENNECO	-

MMSDS LOG BY NFPA CODE

NFPA CODE	STOCK NUMBER	MSDS NUMBER	TRADE NAME	VENDOR	FORM
	SPECIFIC HAZARD: ACID				
123ACID	11111222233338	1111122222333	TYPE 361A SOLDER	TENNECO	-
111ACID	1234567890123	M/00181-30			
222ACID	2222222222222	-	PAINT, YELLOW	DOW	GAS
311ACID	4444444444444	-	SODIUM SULFATE	CHEMCO	UNK
222ACID	A10	M/00181-10	PERMAFUSE	PERMAFUSE CORP.	LIQUID
333ACID	A100	M/00181-1	DEGREASING SOLVENT	DOW CHEM	
111ACID	M/00181-13	M/00181-13	TURCO 5351	TURCO PRODUCTS	GAS
312ACID	M/00181-3	M/00181-3	ABC	DEVOE MARINE COATINGS CO.	LIQUID
	SPECIFIC HAZARD: ACID-COR				
123ACID-COR	M/00181-19	M/00181-19	DUCO LACQUER, FLAT BLACK	E.I.DUPONT DE NEMOURS	
	SPECIFIC HAZARD: COR				
311COR	M/00181-14	M/00181-14	PT 515 WASP-FREEZE	WHITMIRE RESEARCH LAB.	GAS
123COR	M/00181-18	M/00181-18	ALODINE (KIT 120)	AMCHEM PRODUCTS, INC.	
311COR	M/00181-25	M/00181-25	LAMINAR X-500	MIDLAND DIV THE DEXTER CO	
312COR	M/00181-30	M/00181-30	XYOLENE	DUPONT	

MSDS LOG BY FORM

FORM	STOCK NUMBER	MSDS NUMBER	TRADE NAME	VENDOR	NFPA
-	11111222223338	1111122222333	TYPE 361A SOLDER	TENNECO	123ACID
GAS	2222222222222	-	PAINT, YELLOW	DOW	222ACID
GAS	M/00181-13	M/00181-13	TURCO 5351	TURCO PRODUCTS	111ACID
GAS	M/00181-14	M/00181-14	PT 515 WASP-FREEZE	WHITMIRE RESEARCH LAB.	311COR
LIQUID	A10	M/00181-10	PERMAFUSE	PERMAFUSE CORP.	222ACID
LIQUID	M/00181-3	M/00181-3	ABC	DEVOE MARINE COATINGS CO.	312ACID
SOLID	M/00181-2	M/00181-2	COMPOUND W	DOW	311OXY
UNK	4444444444444	-	SODIUM SULFATE	CHEMCO	311ACID

INGREDIENTS	PERCENT	TRADE NAME	CHEMICAL NAMES	VENDOR	MSDS NUMBER	STOCK NUMBER
ACETALDEHYDE	50-60	COMPOUND W		DOW	M/00181-2	M/00181-2
ADDITIVES	16.1	SEMI-GLOSS INTERIOR		HOFFER'S INC.-PAINT	B010LS0010001	B010LS0010001
ALCOHOL	35	COMPOUND W		DOW	M/00181-2	M/00181-2
ALCOHOL	20	PERMAFUSE	PERMAFUSE	PERMAFUSE CORP.	M/00181-10	A10
ALCOHOL	9	DUCO LACQUER, FLAT B	N/A	E.I.DUPONT DE NEMOUR	M/00181-19	M/00181-19
ALIPHATIC ESTER	5,	DUCO LACQUER, FLAT B	N/A	E.I.DUPONT DE NEMOUR	M/00181-19	M/00181-19
ALIPHATIC KETONES	28	DUCO LACQUER, FLAT B	N/A	E.I.DUPONT DE NEMOUR	M/00181-19	M/00181-19
ALIPHATIC NAPHTHA	10	DEVRAN		DEVOE MARINE COATING	M/00181-16	53A10
ASBESTOS		F150-3/4,ASBESTOS.	HYDRATED MAGNESIUM S	AMATEX CORP.	-	597000D000004
BENZENE	40	PERMAFUSE	PERMAFUSE	PERMAFUSE CORP.	M/00181-10	A10
BENZENE	10%	SOLVENT	TRICHLOROETHANE	DOW CHEMICAL	M/00181-37	12345LL12345
BENZENE	10 %	DEGREASING SOLVENT		DOW CHEM	M/00181-1	A100
BENZENE	14	GREASE		AJAX INC.	M/00181-20	A12345
CHLOROFORM	85	PAINT, YELLOW		DOW	-	2222222222222
CHLOROFORM	50	PERMAFUSE	PERMAFUSE	PERMAFUSE CORP.	M/00181-10	A10

WORK CONTROL DOCUMENT REPORT

DOC. NUMBER	DOC. NAME	DATE	TRADE NAME	VENDOR	STOCK NUMBER
P/100	SPRAY PAINTING		PT 515 WASP-FREEZE	WHITMIRE RESEARCH LAB.	M/00181-14
P/150	HULL PAINTING		DEVRAN	DEVOE MARINE COATINGS CO.	53A10
P/210	TIG WELDING		PAINT, YELLOW	DOW	2222222222222
P/500	ASBESTOS STRIPPING		PERMAFUSE	PERMAFUSE CORP.	A10
P1/10	SAND BLASTING		DEGREASING SOLVENT	DOW CHEM	A100

#CAS/NIOSH NUMBER REPORT JUL 8,1986 10:14 PAGE 1

CAS NO.	NIOSH NO.	INGREDIENTS	TRADE NAME	VENDOR	MSDS NUMBER
0000-00-0	N/1	BENZENE	PERMAFUSE	PERMAFUSE CORP.	M/00181-10
0000-00-0	N/1	BENZENE	SOLVENT	DOW CHEMICAL	M/00181-37
0000-00-0	N/1	BENZENE	DEGREASING SOLVENT	DOW CHEM	M/00181-1
0000-00-0	N/1	BENZENE	GREASE	AJAX INC.	M/00181-20
123-202-3	N-123	FERRICYANIDE SALT	ALODINE (KIT 120)	AMCHEM PRODUCTS, INC	M/00181-18
192-29-2	N-3939	XYLOL	DEVRAN	DEVOE MARINE COATING	M/00181-16
293-292-1	N-192	CHROMIC ACID	ALODINE (KIT 120)	AMCHEM PRODUCTS, INC	M/00181-18
30303-3-2	N-3037	ALIPHATIC KETONES	DUCO LACQUER, FLAT B	E.I.DUPONT DE NEMOUR	M/00181-19
393-39-2	N-2938	ALIPHATIC ESTER	DUCO LACQUER, FLAT B	E.I.DUPONT DE NEMOUR	M/00181-19
555-55-4	N-292	ETHYLENE GLYCOL	DEVRAN	DEVOE MARINE COATING	M/00181-16

APPENDIX C

EXAMPLE OF DATA SHEETS REQUESTED REPORT

BDATA SHEETS REQUESTED

SHOP	REQUESTOR NAME	BADGE NO.	DATA SHEET REQUESTED	MATERIAL NAME	DATE REQUESTED	TIME REQUESTED	STATUS
390	DAVE SMITH		9999988888777	409 CLEANER	MAY 10,1985		PENDING
106	ED BUTKIEWICZ		M/00181-16	DEVRAN	OCT 21,1985		PENDING
425.1	JANE DOE	00009	M/00181-13	TURCO 5351	OCT 3,1985		PENDING
NEHC	JIM CRAWL		M/00181-19	DUCO LACQUER, FLAT BLACK	NOV 20,1985		PENDING
350	JOE ADAMS		M/00181-3	ABC	OCT 15,1985		PENDING
			M/00181-10	PERMAFUSE	OCT 5,1985		PENDING
			M/00181-12	DAP WOOD DOUGH	OCT 1,1985		SENT
			W/00181-1	GACOFLEX HYPALON			OTHER
100	JOE BLOW	12345	M/00181-19	DUCO LACQUER, FLAT BLACK	NOV 8,1985		PENDING
106	JOHN DOE						
49	KATHY MILLER	10	M/00181-30	XYOLENE	OCT 31,1985		PENDING
			W/00181-2	TURCO 5351			
209	MARY JONES		M/00181-10	PERMAFUSE	OCT 10,1985		PENDING
10	SAM						

SHOP-R	SHOP-I	BLDG.	CONTRACT NO.	STOCK NUMBER	MATERIAL DESCRIPTION	HZ-CD	VENDOR	DATE-I
11	17			5640002374786	SHEET, PLASTIC INSUL., 1 THK,	Z		SEP 30,1985
11	31			8305001858657	CLOTH, DUCK, COTTON 4-PLY WARP	Z		SEP 30,1985
11	31			6830002708216	ACETYLENE TECHNICAL 98 PER CEN	Z		SEP 30,1985
11	38			4020R07AL57RC	ROPE BRAIDED 3/16 IN DIA NYLON	Z		SEP 30,1985
11	64			5640I99CL99IF	INSULATION PIPE STEAM 7 IN IP	Z		SEP 30,1985
11	64			5640I99CL99IF	INSULATION PIPE STEAM 4 IN IP	Z		SEP 30,1985
11	64			5640002374786	SHEET, PLASTIC INSUL., 1 THK,	Z		SEP 30,1985
11	64			5640002374781	INSULATION SHEET FOAMED PLASTI	Z		SEP 30,1985
11	64			5640002374781	INSULATION SHEET FOAMED PLASTI	Z		SEP 30,1985

LOCATION REPORT BY BUILDING ISSUED TO

BLDG.	SHOP-R	SHOP-I	CONTRACT NO.	STOCK NUMBER	MATERIAL DESCRIPTION	HZ-CD	VENDOR	DATE-I
30	07	07	N0061284A1003	DC5148R34	TORCH TI	P0100	X-ERGON	SEP 30,1985
44	19	19		DC5262191		Z	UNKNOWN VENDOR	SEP 30,1985
44	09	09		DC5262309		Z	UNKNOWN VENDOR	SEP 30,1985
44	50	50		DC5262560		Z	UNKNOWN VENDOR	SEP 30,1985
44	31	31		4820002261981	SEAT SEAT VALVE,	Z	UNKNOWN VENDOR	SEP 30,1985
44	50	50		7350000825741	CUP PLASTIC STYRENE 8 OZ	Z	UNKNOWN VENDOR	SEP 30,1985
44	50	50		8540007935425		Z	UNKNOWN VENDOR	SEP 30,1985
44	64	64		8530001625629	BLADE, RAZOR	Z	UNKNOWN VENDOR	SEP 30,1985
44	02	02		8010005308370		Z	UNKNOWN VENDOR	SEP 30,1985

LOCATION REPORT BY CONTRACT NUMBER

CONTRACT NO.	SHOP-R	SHOP-I	BLDG.	STOCK NUMBER	MATERIAL DESCRIPTION	HZ-CD	VENDOR	DATE-I
N0061284A0213	06	06	69	3416DC5087311	CAM TO RAISE LOCK PIN #38 PART	P0100	CHARLESTON SUPPLY CO	SEP 30,1985
N0061284A0376	40	40	69	6810DC5189990	NITRIC ACID - 500 ML. CONCENTR	P0100	FISHER SCIENTIFIC CO	SEP 30,1985
N0061284A0376	40	40	69	6810DC5189990	HYDROCHLORIC ACID - 6 X 100 ML	P0100	FISHER SCIENTIFIC CO	SEP 30,1985
N0061284A0376	40	40	69	6810DC5189990	PHOSPHORIC ACID - 500 ML CONCE	P0100	FISHER SCIENTIFIC CO	SEP 30,1985
N0061284A0376	40	40	69	6810DC5189990	SODIUM HYDROZIDE 6 X 100 ML 10	P0100	FISHER SCIENTIFIC CO	SEP 30,1985
N0061284A0376	40	40	69	6810DC5189990	CUPRIC SULFATE - 500 GR. CAT #	P0100	FISHER SCIENTIFIC CO	SEP 30,1985
N0061284A0376	40	40	69	6810DC5189990	ZINC ACETATE - 500 GR. CAT #22	P0100	FISHER SCIENTIFIC CO	SEP 30,1985
N0061284A0552	06	06	69	3416DC5056314	BOARD 2A5 FIELD WEAKENING BAUM	P0100	KNIGHT TOOLS INC	SEP 30,1985
N0061284A0552	06	06	69	3405DC5147330	COMPLET ASSY. P/N R 418-A	P0100	KNIGHT TOOLS INC	SEP 30,1985

DATE-I	SHOP-R	SHOP-I	BLDG.	CONTRACT NO.	STOCK NUMBER	MATERIAL DESCRIPTION	HZ-CD	VENDOR
SEP 30,1985	19	19	44		DC5262191		Z	UNKNOWN VENDOR
SEP 30,1985	20	20	1174		6850006646053	ACID INHIBITOR	TT101	UNKNOWN VENDOR
SEP 30,1985	31	31	5		5330001668390	PACKING, PREFORMED MIL-R-83248	TT101	UNKNOWN VENDOR
SEP 30,1985	31	31	44		4820002261981	SEAT SEAT VALVE,	Z	UNKNOWN VENDOR
SEP 30,1985	31	31	44		5360008029266	SPRING SPRING HLCPS MN VL PC0	Z	UNKNOWN VENDOR
SEP 30,1985	31	31	69		5360005433570	SPRING SPRING FIG-2-12 PAGE A	Z	UNKNOWN VENDOR
SEP 30,1985	31	31	1174		5330005822107	RING, BACK-UP MS28774-329	TT101	UNKNOWN VENDOR
SEP 30,1985	32	32	69	N0061285MP849	7610DC5205384	BOOK-7 OFFICE MENU PROG MINI R	P0100	DIGITAL EQUIPMENT CORP

SHOP-I	BLDG.	SHOP-R	STOCK NUMBER	MATERIAL DESCRIPTION	HZ-CD	VENDOR	DATE-I	QTY	UNIT	CONTRACT NO.
34	69	34	6640DC5134380	BLOCKS STANDARD TEST, CAL	P0100	MARK V LABORATORY	SEP 30,1985	000001	EA	N0061285MM988
34	69	34	6640DC5183381	BLOCKS STANDARD TEST, CAL	P0100	MARK V LABORATORY	SEP 30,1985	000001	EA	N0061285MM988
34	69	34	6640DC5183381	BLOCKS STANDARD TEST, CAL	P0100	MARK V LABORATORY	SEP 30,1985	000001	EA	N0061285MM988
34	69	34	6640DC5183381	BLOCKS STANDARD TEST, CAL	P0100	MARK V LABORATORY	SEP 30,1985	000001	EA	N0061285MM988
34	69	34	6640DC5203384	CHROMIUM 51 STANDARD SOLN	P0100	E I DUPONT NEN PRODUC	SEP 30,1985	000001	EA	N0061285MQ432
34	69	34	6640DC5203384	COBALT 60 STANDARD SOL	P0100	E I DUPONT NEN PRODUC	SEP 30,1985	000001	EA	N0061285MQ432
34	69	34	6640DC5203384	MANGANESE 54 STANDARD SOL	P0100	E I DUPONT NEN PRODUC	SEP 30,1985	000001	EA	N0061285MQ432
38	1178	38	5310010647228	BAR TORQUE	TT101	UNKNOWN VENDOR	SEP 30,1985	000003	EA	
38	1178	38	5310010647228	BAR TORQUE	TT101	UNKNOWN VENDOR	SEP 30,1985	000003	EA	

LOCATION REPORT BY MATERIAL NAME

MATERIAL NAME	SHOP-I	BLDG.	DATE-I	CONTRACT NO.	VENDOR
ACETYLENE TECHNICAL 98 PER CEN	31		SEP 30,1985		
ACID INHIBITOR	20	1174	SEP 30,1985		UNKNOWN VENDOR
ADHESIVE, ARMSTRONG # 520 1/2	64		SEP 30,1985		
BAR TORQUE	38	1178	SEP 30,1985		UNKNOWN VENDOR
BAR TORQUE	38	1178	SEP 30,1985		UNKNOWN VENDOR
BLADE, RAZOR	64	44	SEP 30,1985		UNKNOWN VENDOR
BLOCKS STANDARD TEST, CALIBRAT	34	69	SEP 30,1985	N0061285MM988	MARK V LABORATORY
BLOCKS STANDARD TEST, CALIBRAT	34	69	SEP 30,1985	N0061285MM988	MARK V LABORATORY
BLOCKS STANDARD TEST, CALIBRAT	34	69	SEP 30,1985	N0061285MM988	MARK V LABORATORY
BLOCKS STANDARD TEST, CALIBRAT	34	69	SEP 30,1985	N0061285MM988	MARK V LABORATORY
BOARD 2A5 FIELD WEAKENING BAUM	06	69	SEP 30,1985	N0061284A0552	KNIGHT TOOLS INC
BOOK-7 OFFICE MENU PROG MINI R	32	69	SEP 30,1985	N0061285MP849	DIGITAL EQUIPMENT CORP
BRUSH,PAINT,OVAL 7/8 IN.W 11/1	64		SEP 30,1985		
BUSS BAR FLAT 1/4 THK QQ-B-82	51	177	SEP 30,1985		UNKNOWN VENDOR

USAGE SUMMARY

SHOP-I	BLDG.	QTY	UNIT	STOCK NUMBER	MATERIAL DESCRIPTION	VENDOR	DATE-I
19	44	000001	LT	DC5262191		UNKNOWN VENDOR	SEP 30,1985
20	1174	000007	GL	6850006646053	ACID INHIBITOR	UNKNOWN VENDOR	SEP 30,1985
31	5	000006	EA	5330001668390	PACKING, PREFORMED MIL-R-	UNKNOWN VENDOR	SEP 30,1985
31	44	000004	EA	4820002261981	SEAT SEAT VALVE,	UNKNOWN VENDOR	SEP 30,1985
31	44	000001	EA	5360008029266	SPRING SPRING HLCPS MN V	UNKNOWN VENDOR	SEP 30,1985
31	69	000001	EA	5360005433570	SPRING SPRING FIG-2-12 P	UNKNOWN VENDOR	SEP 30,1985
31	1174	000003	EA	5330005822107	RING, BACK-UP MS28774-329	UNKNOWN VENDOR	SEP 30,1985
32	69	000005	EA	7610DC5205384	BOOK-7 OFFICE MENU PROG M	DIGITAL EQUIPMENT CO	SEP 30,1985

APPENDIX D

EXAMPLES OF DATA SHEETS

APPENDIX D

The data sheet on pages D-3 and D-4 labeled Hazardous Materials Data Sheet is the worker data sheet. The Material Safety Data Sheet on pages D-5 through D-8 is the full listing of an HMIS or local MSDS entry.

HAZARDOUS MATERIALS DATA SHEET

SECTION I - IDENTIFICATION INFORMATION

MDS #: M/00181-1 MDS DATE: DEC 9,1985
MATERIAL NAME:
GACOFLEX HYPALON,
U.I.C.: 6 FACILITY: CNSY
MANUFACTURER NAME: EMERGENCY TELEPHONE:
GACO WESTERN INC. 206 575-0450
MANUFACTURER ADDRESS:
CHEMICAL NAME: TRADE NAME:
HYPALON GACOFLEX HYPALON
CHEMICAL FAMILY: FORMULA:
CHLOROSULFONATED POLYETHYLENE
NFPA CODE: 3330XY

SECTION II - HAZARDOUS INGREDIENTS

ALCOHOL, BENZENE, HYPALON, PIGMENTS, ALIPHATIC NAPHTHA, 81, XYLENE,
ISOBUTYL ALCOHOL, N-PROPANOL, POLYVINYL ACETATE,

SECTION III - PHYSICAL DATA

BOILING POINT: 110-347
APPEARANCE AND ODOR:
FORM: SOLID

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: 40 F.
EXTINGUISHING MEDIA:
CARBON DIOXIDE/DRY POWDER/WATER FOG
FIRE FIGHTING PROCEDURES:
USE SELF CONTAINED BREATHING APPARATUS/PROTECTIVE CLOTHING
FIRE AND EXPLOSION HAZARDS:

SECTION V - HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE:
DIZZINESS, HEADACHE/NAUSEA/LOSS OF CONCIOUS.
EMERGENCY/FIRST AID PROCEDURES:
FRESH AIR/DO NOT INDUCE VOMIT./CALL DR.
ROUTE OF EXPOSURE:
EARLY WARNING PROPERTIES:
ACUTE TOXICITY:
CHRONIC TOXICITY:
CARCINOGENICITY:
TERATOGENICITY:
MUTAGENICITY:

SECTION VI - REACTIVITY DATA

STABILITY: STABLE CONDITIONS TO AVOID (INSTABILITY):
INCOMPATABILITY (MATERIALS TO AVOID):
HAZARDOUS DECOMPOSITION PRODUCTS:
CARBON MONOXIDE/CARBON DIOXIDE/SULFUR OXIDE
CONDITIONS TO AVOID (HAZARDOUS POLYMERIZATION):

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IF MATERIAL RELEASED OR SPILLED:
    CLEAN WITH TOLUENE O DETERGENT

WASTE DISPOSAL METHOD:
    LANDFILL

MIXTURE REPORTABLE SPILL QTY:

NEUTRALIZING AGENT:

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION:

VENTILATION:

PROTECTIVE GLOVES:

EYE PROTECTION:

OTHER PROTECTIVE EQUIPMENT:

SECTION IX - SPECIAL PRECAUTIONS

HANDLING/STORAGE PRECAUTIONS:
    COOL,DRY PLACE AWAY FROM SPARKS/FLAMES/OXIDIZERS

OTHER PRECAUTIONS:
    DO NOT TAKE INTERN./AVOID CONTACT WITH EYES AND SKIN

SECTION X - OTHER INFORMATION

AUTO IGNITION TEMPERATURE:

SPECIAL LABELLING:

SPECIAL HAZARDS:

SPECIAL TRAINING:

COMMON USE:

COLOR: COLOR NO.:

WORK CONTROL DOCUMENT:
    P/500 DOC. NO.: P/500

REMARKS:

MATERIAL SAFETY DATA SHEET

SECTION I - IDENTIFICATION INFORMATION

M/00181-1 COMMENT:
MSDS #: M/00181-1 MSDS DATE: AUG 6,1986
WDS #: WDS DATE:
APPROVAL CODE: SOURCE MSDS:
MATERIAL NAME: DEGREASING SOLVENT, SUPERSOL-80,
COMMENT:
TRADE NAME: DEGREASING SOLVENT
U.I.C.: 00181 FACILITY: PSNY
LOCAL STOCK NUMBER:
A100, L999900123,
SPECIFICATION: MIL-12309
NFPA: 333ACID COMMENT:
COLOR: CLEAR COMMENT: THIS MATERIAL TURNS BLACK WHEN MIXED WITH PRODUCTS CONTAINING CHLORINE
COLOR NO.: 0 COMMENT:
MSDS DATA FLAG: PHMIS DATA FLAG: A SAFETY FLAG:
TRANSPORTATION FLAG: MATERIAL ACTION CODE:
MATERIAL CHANGE CODE: MATERIAL DATE OF ENTRY:
COMMENT:
FOCAL POINT INDICATOR: PROPRIETARY INDICATOR: WDS FLAG:
MANUFACTURER NAME: MARFAN ELECTRONICS
COMMENT:
MANUFACTURER ADDRESS: 1820 PRIMROSE TRAIL
COMMENT:
MANUFACTURER DAY TELEPHONE: 212 456-4893 COMMENT:
MANUFACTURER NIGHT TELEPHONE: 212 201-3748COMMENT:
DISTRIBUTOR NAME: INDUSTRIAL POLYCHGEMICAL SERVICE
COMMENT:
DISTRIBUTOR ADDRESS: PO BOX 471,GARDENA, CALIFORNIA 90247
COMMENT:
DISTRIBUTOR DAY TELEPHONE: 619 392-3029 COMMENT:
DISTRIBUTOR NIGHT TELEPHONE: NONE COMMENT:
EMERGENCY TELEPHONE: 212 564-1029 COMMENT:
FSCM: COMMENT:
PART NUMBER INDICATOR:
CHEMICAL NAME: 5-HYDROXYQUINONE
COMMENT:
CHEMICAL FAMILY: QUINONE
COMMENT:
FORMULA: 5-OH-C6H12 COMMENT:

SECTION II - INGREDIENTS

BENZENE PCT: 10 %
TLV: 100 PPM UNITS: PEL: UNITS:
OTHER LIMIT: UNITS:
CAS: 0000-00-0 NIOSH: N/1

CHROMIUM PCT:
TLV: UNITS: PEL: UNITS:
OTHER LIMIT: UNITS:
CAS: CAS-1 NIOSH:

PETROLEUM DISTALLATE PCT:
TLV: UNITS: PEL: UNITS:
OTHER LIMIT: UNITS:
CAS: 44-3-4 NIOSH:

STODDARD SOLVENT PCT:
TLV: UNITS: PEL: UNITS:
OTHER LIMIT: UNITS:
CAS: 000-00-1 NIOSH: WJ8925000

ALIPHATIC NAPHTHA PCT:

MATERIAL SAFETY DATA SHEET

TLV: UNITS: PEL: UNITS:
OTHER LIMIT: UNITS:
CAS: 234-39-9 NIOSH:

TIN PCT: 10
TLV: UNITS: PERC PEL: UNITS:
OTHER LIMIT: UNITS:
CAS: DA-1 NIOSH: N-1

PINE OIL PCT:
TLV: UNITS: PEL: UNITS:
OTHER LIMIT: UNITS:
CAS: 99999-34-3 NIOSH:

SECTION III - PHYSICAL DATA

BOILING POINT: 310 F COMMENT:
VAPOR PRESSURE: 29 MMHG COMMENT:
VAPOR DENSITY: 1.203 COMMENT:
SOLUBILITY IN WATER: 21 PPM COMMENT:
SPECIFIC GRAVITY: 2.19 COMMENT:
PCT. VOLATILE BY VOL.: 29% COMMENT:
EVAPORATION RATE: 10 COMMENT:
APPEARANCE AND ODOR: CLEAR AND ODORLESS
COMMENT:

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: 120 F COMMENT:
LEL: 1.8 COMMENT:
UEL: 11.8 COMMENT:
EXTINGUISHING MEDIA: DRY CHEMICAL, CARBON DIOXIDE,FOAM
COMMENT:
FIRE FIGHTING PROCEDURES: CLOSE OR CONFINED QUARTERS REQ. BREATHING APP.
COMMENT:
FIRE AND EXPLOSION HAZARDS: FIRE HAZARD BECAUSE OF LOW FLASS POINTS, HIGH VOLATILITY
COMMENT:

SECTION V - HEALTH HAZARD DATA

TLV FOR THE MIXTURE: 200 PPM COMMENT:
EFFECTS OF OVEREXPOSURE: NAUSEA, DIZZINESS, HEADACHE,EYE IRRITATION,
COMMENT:
EMERG./FIRST AID PROC.: VAPORS: REMOVE TO FRESH AIR; LIQUID: WASH WITH WATER,REMOVE CLOTHES
COMMENT:
ROUTE OF EXPOSURE: INHALATION
ACUTE TOXICITY: NAUSEA,DEFATTING EFFECT ON TISSUES
CHRONIC TOXICITY: NONE
MSDS EXPOSURE LIMIT: 250 PPM COMMENT:
EARLY WARNING SIGNS: LIGHTHEADEDNESS
CARCINOGENICITY: MAY CAUSE CANCER IN LABORATORY ANIMALS
TERATOGENICITY: NONE
MUTAGENICITY:

SECTION VI - REACTIVITY DATA

STABILITY: STABLE COMMENT:
COND. TO AVOID (INSTABILITY): KEEP FROM HEAT,SPARKS,OPEN FLAME
COMMENT:
MAT. TO AVOID (INCOMPATIBLE): CAUSTICS,AMMONIA,INORGANIC ACIDS
COMMENT:

MATERIAL SAFETY DATA SHEET

HAZARD. DECOMPOSITION PRODUCTS: CARBON DIOXIDE FROM PVC,CARBON MONOXIDE,HYDROGEN CHLORIDE

COMMENT:

HAZARD. POLYMERIZATION OCCUR: WILL NOT OCCUR

COMMENT:

COND. TO AVOID (HAZ. POLYM.):

COMMENT:

SECTION VII - SPILL OR LEAK PROCEDURES

SPILL AND LEAK CONTROL: ELIMINATE IGNITION SOURCES,AVOID BREATHING VAPORS

COMMENT:

WASTE ELIMINATION: INCINERATE

COMMENT:

REPORTABLE QTY.:

COMMENT:

NEUTRALIZING AGENT: SODA ASH

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: RESPIRATOR IN CONFINED SPACES

COMMENT:

VENTILATION: NORMAL VENT. PREFERABLE

COMMENT:

PROTECTIVE GLOVES: RUBBER OR PVC COMMENT:

EYE PROTECTION: SAFETY GOGGLES COMMENT:

OTHER PROTECTIVE EQUIPMENT:

COMMENT:

SECTION IX - SPECIAL PRECAUTIONS

HANDLING/STORAGE PRECAUTIONS:

COMMENT:

OTHER PRECAUTIONS:

COMMENT:

SPECIAL HAZARDS:

INSTABILITY WITH OTHER SOLVENTS

SUPPLEMENTAL DATA:

SECTION X - TRANSPORTATION INFORMATION

STORAGE COMPATIBILITY CODE: COMMENT:

DOT ID NUMBER: COMMENT:

DOT NAME:

COMMENT:

DOT CLASS: COMMENT:

UNIT OF ISSUE: COMMENT:

SIZE CONTAINER:

COMMENT:

TYPE CONTAINER: COMMENT:

NET UNIT WEIGHT: COMMENT:

MAGNETISM: COMMENT:

RADIOACTIVITY: COMMENT:

AUTO IGNITION TEMP: COMMENT:

MATERIAL FORM: LIQ COMMENT:

SECTION XI - OTHER INFORMATION

SPECIAL LABELLING: LABEL AS TO CONTENTS

SPECIAL TRAINING: NONE

MATERIAL SAFETY DATA SHEET

COMMON USE: DEGREASING SOLVENT
DOC. NUMBER: PI/10
NAME: SAND BLASTING
DATE:
DOC. NUMBER: PI/123
NAME: USE OF STANDARD SOLVENTS
DATE: APR 1,1985
REMARKS: USE OF THIS MATERIAL IS RESTRICTED TO POSTED AREAS ANY OTHER USE WILL RESULT IN DISCIPLINARY ACTION AND/OR FINES

APPENDIX E

EXAMPLE OF OUTPUT FROM SEARCH PROCESS

STOCK NUMBER: M/00181-1
MATERIAL NAME: DEGREASING SOLVENT
MATERIAL NAME: SUPERSOL-80
LOCAL STOCK NUMBER: A100
LOCAL STOCK NUMBER: L999900123
PRINT FLAG: P HMIS DATA FLAG: A
MANUFACTURER NAME: MARFAN ELECTRONICS
MANUFACTURER ADDRESS: 1820 PRIMROSE TRAIL
MANUFACTURER DAY TELEPHONE: 212 456-4893
MANUFACTURER NIGHT TELEPHONE: 212 201-3748
DISTRIBUTOR NAME: INDUSTRIAL POLYCHGEMICAL SERVICE
DISTRIBUTOR ADDRESS: PO BOX 471,GARDENA, CALIFORNIA 90247
DISTRIBUTOR DAY TELEPHONE: 619 392-3029
DISTRIBUTOR NIGHT TELEPHONE: NONE
EMERGENCY TELEPHONE NUMBER: 212 564-1029 CHEMICAL NAMES: 5-HYDROXYQUINONE
CHEMICAL FAMILY: QUINONE FORMULA: 5-OH-C6H12
INGREDIENTS: BENZENE PERCENT: 10 % TLV: 100 PPM
CAS NO.: 0000-00-0 NIOSH NO.: N/1
INGREDIENTS: CHROMIUM CAS NO.: CAS-1
INGREDIENTS: PETROLEUM DISTALLATE CAS NO.: 44-3-4
INGREDIENTS: STODDARD SOLVENT CAS NO.: 000-00-1 NIOSH NO.: WJ8925000
INGREDIENTS: ALIPHATIC NAPHTHA CAS NO.: 234-39-9
INGREDIENTS: TIN PERCENT: 10 CAS NO.: DA-1 NIOSH NO.: N-1
TLV UNITS: PERC
INGREDIENTS: PINE OIL CAS NO.: 99999-34-3
SPECIFICATION: MIL-12309 SPECIAL HAZARDS: INSTABILITY WITH OTHER SOLVENTS
BOILING POINT: 310 F VAPOR PRESSURE: 29 MMHG VAPOR DENSITY: 1.203
SOLUBILITY IN WATER: 21 PPM SPECIFIC GRAVITY: 2.19
PERCENT VOLATILE BY VOLUME: 29% EVAPORATION RATE PER REFERENCE: 10
APPEARANCE AND ODOR: CLEAR AND ODORLESS FLASH POINT: 120 F
LOWER EXPLOSIVE LIMIT: 1.8 UPPER EXPLOSIVE LIMIT: 11.8
EXTINGUISHING MEDIA: DRY CHEMICAL, CARBON DIOXIDE,FOAM
FIRE FIGHTING PROCEDURES: CLOSE OR CONFINED QUARTERS REQ. BREATHING APP.
FIRE AND EXPLOSION HAZARDS: FIRE HAZARD BECAUSE OF LOW FLASS POINTS, HIGH VOLAT
ILITY TLV FOR THE MIXTURE: 200 PPM
EFFECTS OF OVEREXPOSURE: NAUSEA, DIZZINESS, HEADACHE,EYE IRRITATION,
EMERGENCY AND FIRST AID PROC.: VAPORS: REMOVE TO FRESH AIR; LIQUID: WASH WITH W
ATER,REMOVE CLOTHES STABILITY: STABLE
MAT. TO AVOID (INCOMPATIBLE): CAUSTICS,AMMONIA,INORGANIC ACIDS
HAZARD. DECOMPOSITION PRODUCTS: CARBON DIOXIDE FROM PVC,CARBON MONOXIDE,HYDROGE
N CHLORIDE HAZARD. POLYMERIZATION OCCUR: WILL NOT OCCUR
COND. TO AVOID (INSTABILITY): KEEP FROM HEAT,SPARKS,OPEN FLAME
SPILL AND LEAK CONTROL: ELIMINATE IGNITION SOURCES,AVOID BREATHING VAPORS
WASTE ELIMINATION: INCINERATE MATERIAL FORM: LIQ
MSDS NUMBER: M/00181-1 MSDS DATE: AUG 6, 1986 NFPA CODE: 333ACID
'?' TO HALT:
MSDS EXPOSURE LIMIT: 250 PPM COLOR: CLEAR COLOR NUMBER: 0
SPECIAL LABELING: LABEL AS TO CONTENTS ROUTE OF EXPOSURE: INHALATION
SPECIAL TRAINING REQUIRED: NONE
SPECIAL/EARLY WARNING PROP.: LIGHTHEADEDNESS
NEUTRALIZING AGENT: SODA ASH COMMON USE: DEGREASING SOLVENT
ACUTE TOXIC EFFECTS: NAUSEA,DEFATTING EFFECT ON TISSUES U.I.C.: 00181
FACILITY: PSNY
REMARKS: USE OF THIS MATERIAL IS RESTRICTED TO POSTED AREAS ANY OTHER USE
WILL RESULT IN DISCIPLINARY ACTION AND/
WORK CONTROL DOCUMENT NUMBER: PI/10
WORK CONTROL DOCUMENT NAME: SAND BLASTING
WORK CONTROL DOCUMENT NUMBER: PI/123
WORK CONTROL DOCUMENT NAME: USE OF STANDARD SOLVENTS
WORK CONTROL DOCUMENT DATE: APR 1, 1985
CHRONIC TOXIC EFFECTS: NONE
RESPIRATORY PROTECTION: RESPIRATOR IN CONFINED SPACES
VENTILATION: NORMAL VENT. PREFERABLE PROTECTIVE GLOVES: RUBBER OR PVC
EYE PROTECTION: SAFETY GOGGLES
CARCINOGENICITY: MAY CAUSE CANCER IN LABORATORY ANIMALS
TERATOGENICITY: NONE
C-INGREDIENTS: STODDARD SOLVENT IS AN INERT CARRIER
C-COLOR: THIS MATERIAL TURNS BLACK WHEN MIXED WITH PRODUCTS CONTAINING CHLORINE

APPENDIX F

EXAMPLES OF HMIS UPDATE REPORTS

APPENDIX F

The following reports contain references only to HMIS entries. Therefore, "Stock Number" refers to national stock number, "FSCM" refers to Federal Supply Code for Manufacturers, "PNI" is part number indicator, "Material Name" is trade name, and "vendor" is either manufacturer or distributor.

EHMIS UPDATE REPORT

JUL 8,1986 10:21 PAGE 1

STOCK NUMBER	FSCM	PNI	MATERIAL NAME	VENDOR	MDS NUMBER
597000D000004	90896	A	F150-3/4,ASBESTOS.	AMATEX CORP.	
681000D000001	8N493	A	PROPYLENE OXIDE	UNION CARBIDE CORP, LINDE DIV	
685000D000002	84063	A	DEOXIDINE 624	AMCHEM PROD	
685000D000003	87698	A	VIRGINIA #10 DEGREASING SOLVENT, D-1	VIRGINIA CHEM, INC	
8010LS0010001	81348	A	SEMI-GLOSS INTERIOR LATEX WHITE	HOFFER'S INC.-PAINT DIV.	
8040N05985164	61957	A	BOSTIK 1007P	USM CORPORATION,BOSTIK DIVISION	

STOCK NUMBER	FSCM	PNI	FIELD	VALUE
1313	123	A	80.8	AAAAASSSSSDDDDDFFFFFGGGGGHHH

MSDS NOT MATCHED BY HMIS RECORD

STOCK NUMBER	MSDS NUMBER	MSDS DATE	TRADE NAME	VENDOR	CHEMICAL NAMES
2222222222222	-	OCT 22,1985	PAINT, YELLOW	DOW	
4444444444444	-	SEP 29,1985	SODIUM SULFATE	CHEMCO	
685000D000009	-				
6625J3309607A	-				
1560K0152507A	-				
1560K0152507A	-				
1560K0152507A	-				
1111122222333	111112222333	SEP 16,1985	TYPE 361A SOLDER	TENNECO	
9999988888777	M/00181-1	SEP 16,1984	409 CLEANER	DUPONT	
M/00181-1	M/00181-1	JAN 1,1985	DEGREASING SOLVENT	DOW CHEM	
M/00181-10	M/00181-10	JAN 10,1984	PERMAFUSE	PERMAFUSE CORP.	PERMAFUSE
1560K0152507A	M/00181-11				
1234555555559	M/00181-12	SEP 18,1985	PIGMENT DISPERSION	DOW CHEMICALS	
M/00181-13	M/00181-13	MAY 8,1985	TURCO 5351	TURCO PRODUCTS	FORMALDEHYDE
M/00181-14	M/00181-14	SEP 28,1984	PT 515 WASP-FREEZE	WHITMIRE RESEARCH LAB.	WASP-FREEZE
111111111222	M/00181-15	OCT 22,1985	JUNK		

INGREDIENTS NOT IN STRESSOR FILE

INGREDIENT	MATERIAL NAME	STOCK NUMBER	FSCM	PART	MANUFACTURER
ADDITIVES	SEMI-GLOSS INTERIOR LATEX WHIT	S/8010LS0010001	81348	A	HOFFER'S INC.-PAINT DIV.
ADDITIVES	SEMI-GLOSS INTERIOR LATEX WHIT	8010LS0010001	81348	A	HOFFER'S INC.-PAINT DIV.
ALCOHOL	GACOFLEX HYPALON	M/11			GACO WESTERN INC.
ISOBUTYL ALCOHOL	GACOFLEX HYPALON	M/11			GACO WESTERN INC.
METHYLENE CHLORIDE, DICHLOROME	VIRGINIA #10 DEGREASING SOLVEN	S/685000D000003	87698	A	VIRGINIA CHEM, INC
METHYLENE CHLORIDE, DICHLOROME	VIRGINIA #10 DEGREASING SOLVEN	685000D000003	87698	A	VIRGINIA CHEM, INC
PERFUME	JUNK	M/32			DOW
PIGMENTS	SEMI-GLOSS INTERIOR LATEX WHIT	S/8010LS0010001	81348	A	HOFFER'S INC.-PAINT DIV.
PIGMENTS	SEMI-GLOSS INTERIOR LATEX WHIT	8010LS0010001	81348	A	HOFFER'S INC.-PAINT DIV.
PINE OIL	PT 515 WASP-FREEZE	M/14			WHITMIRE RESEARCH LAB.
POLYVINYL ACETATE	GACOFLEX HYPALON	M/11			GACO WESTERN INC.
POLYVINYL ACETATE	GACOFLEX HYPALON	W/00181-1			GACO WESTERN INC.
POTASSIUM FERROCYANIDE	200-1050,ELECTROSTATIC SOLUTIO	S/685000D000005	6K331	A	AM CORP MULTIGRAPHICS DIV (MFR
PROPYLENE OXIDE	PROPYLENE OXIDE	S/681000D000001	8N493	A	UNION CARBIDE CORP, LINDE DIV
PROPYLENE OXIDE	PROPYLENE OXIDE	681000D000001	8N493	A	UNION CARBIDE CORP, LINDE DIV
PYRETHRINS	PT 515 WASP-FREEZE	M/14			WHITMIRE RESEARCH LAB.